

What is Claimed is:

1. A flux ring, comprising:
  - an annular housing;
  - at least one molded magnet received on said housing; and
  - an anchor on said housing retaining said at least one magnet on said annular housing, said anchor unitarily formed with said housing and including a bend and a reinforcing member positioned at said bend.
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2. The flux ring according to Claim 1, wherein said annular housing being metal.
3. The flux ring according to Claim 2, wherein said anchor projects radially from said housing.
4. The flux ring according to Claim 3, wherein said anchor is formed from said housing and providing an aperture immediate said anchor.
5. The flux ring according to Claim 4, wherein said magnet molds around said anchor and into said aperture.
6. The flux ring according to Claim 3, wherein said anchor has an overall rectangular shape with two ends connected to said housing with reinforcement members at bends.

7. The flux ring according to Claim 6, wherein one end is connected to said housing.

8. The flux ring according to Claim 3, wherein said anchor has an overall L-shape with one end connected to said housing.

9. The flux ring according to Claim 3, wherein said anchor has an overall T-shape with one end connected to said housing.

10. A motor comprising:

a stator assembly, said stator assembly including a flux ring comprising:  
an annular housing;

at least one molded magnet received on said housing;

5 an anchor on said housing retaining said at least one magnet on said annular housing, said anchor unitarily formed with said housing and including a bend, a reinforcement member positioned at said bend;

an armature rotatable within said stator assembly;

10 a commutator rotatable with said armature and connected to said armature via a shaft; and

brush assemblies associated with said commutator.

11. The motor according to Claim 10, wherein said annular housing being metal.

12. The motor according to Claim 11, wherein said anchor is projecting radially inward from said housing.

13. The motor according to Claim 12, wherein said anchor is a portion of said housing and having an aperture immediate said anchor.

14. The motor ring according to Claim 13, wherein said magnet molds around said anchor and in said aperture.

15. The motor according to Claim 12, wherein said anchor has an overall rectangular shape with two ends connected to said housing with reinforcement members at the bends.

16. The motor according to Claim 15, wherein one end is connected to said housing.

17. The motor according to Claim 12, wherein said anchor has an overall L-shape with one end connected to said housing.

18. The motor according to Claim 12, wherein said anchor has an overall T-shape with one end connected to said housing.

19. A power tool comprising:

5                   a housing;

                  a motor in said housing, said motor comprising:

                  a stator assembly, said stator assembly including a flux ring comprising:

                  an annular housing;

                  at least one molded magnet received on said housing;

                  an anchor on said housing retaining said at least one magnet on said annular housing, said anchor unitarily formed with said housing and including a bend, reinforcement member at said bend;

10                  an armature rotatable within said stator assembly;

                  a commutator rotatable with said armature and connected to said armature via a shaft;

                  brush assemblies associated with said commutator;

                  a power supply;

15                  an output member coupled with said motor shaft; and

                  an actuator member electrically coupled between said motor and said power source for energizing and de-energizing said motor which, in turn, rotates said output member when said motor is energized.

20. The power tool according to Claim 19, wherein said annular housing being metal.

21. The power tool according to Claim 20, wherein said anchor is projecting radially inward from said housing.

22. The power tool according to Claim 21, wherein said anchor is a portion of said housing and having an aperture immediate said anchor.

23. The power tool according to Claim 22, wherein said magnet molds around said anchor and in said aperture.

24. The power tool according to Claim 21, wherein said anchor has an overall rectangular shape with two ends connected to said housing with reinforcement members at the bends.

25. The power tool according to Claim 24, wherein one end is connected to said housing.

26. The power tool according to Claim 21, wherein said anchor has an overall L-shape with one end connected to said housing.

27. The power tool according to Claim 21, wherein said anchor has an overall T-shape with one end connected to said housing.